

Current and future role of Haber–Bosch ammonia in

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Citation Report

#	ARTICLE	IF	CITATIONS
1	Feasibility Study of Plasma-Catalytic Ammonia Synthesis for Energy Storage Applications. <i>Catalysts</i> , 2020, 10, 999.	1.6	28
2	Hydrogen production from ammonia decomposition using Co/Al ₂ O ₃ catalysts – Insights into the effect of synthetic method. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 27210-27220.	3.8	36
3	Iron based catalysts in biomass processing. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 134, 110292.	8.2	24
4	Demonstrating the Direct Relationship between Hydrogen Evolution Reaction and Catalyst Deactivation in Synthetic Fe Nitrogenases. <i>ACS Catalysis</i> , 2020, 10, 12555-12568.	5.5	13
5	Improving alkaline hydrogen evolution reaction kinetics on molybdenum carbide: Introducing Ru dopant. <i>Journal of Catalysis</i> , 2020, 392, 313-321.	3.1	43
6	Gas Chromatographic Method for <i>In Situ</i> Ammonia Quantification at Parts per Billion Levels. <i>ACS Energy Letters</i> , 2020, 5, 3773-3777.	8.8	29
7	Self-assembly of a highly stable and active Co ₃ O ₄ /H-TiO ₂ bulk heterojunction with high-energy interfacial structures for low temperature CO catalytic oxidation. <i>Catalysis Science and Technology</i> , 2020, 10, 8374-8382.	2.1	4
8	Opportunities and Challenges for Renewable Power-to-X. <i>ACS Energy Letters</i> , 2020, 5, 3843-3847.	8.8	126
9	Life cycle energy use and greenhouse gas emissions of ammonia production from renewable resources and industrial by-products. <i>Green Chemistry</i> , 2020, 22, 5751-5761.	4.6	126
10	Desorption in Ammonia Manufacture from Stranded Wind Energy. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 15475-15483.	3.2	6
11	Techno-economic viability of islanded green ammonia as a carbon-free energy vector and as a substitute for conventional production. <i>Energy and Environmental Science</i> , 2020, 13, 2957-2966.	15.6	88
12	Towards Green Ammonia Synthesis through Plasma-Driven Nitrogen Oxidation and Catalytic Reduction. <i>Angewandte Chemie</i> , 2020, 132, 24033-24037.	1.6	20
13	High Ammonia Uptake of a Metal-Organic Framework Adsorbent in a Wide Pressure Range. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 22531-22536.	7.2	54
14	Towards Green Ammonia Synthesis through Plasma-Driven Nitrogen Oxidation and Catalytic Reduction. <i>Angewandte Chemie - International Edition</i> , 2020, 59, 23825-23829.	7.2	58
15	Unraveling Discharge and Surface Mechanisms in Plasma-Assisted Ammonia Reactions. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 14855-14866.	3.2	37
16	Performance of a Small-Scale Haber Process: A Techno-Economic Analysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 15517-15531.	3.2	46
17	Plasma-driven catalysis: green ammonia synthesis with intermittent electricity. <i>Green Chemistry</i> , 2020, 22, 6258-6287.	4.6	163
18	High Ammonia Uptake of a Metal-Organic Framework Adsorbent in a Wide Pressure Range. <i>Angewandte Chemie</i> , 2020, 132, 22720-22725.	1.6	7

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19	Towards a generic understanding of oxygen evolution reaction kinetics in polymer electrolyte water electrolysis. <i>Energy and Environmental Science</i> , 2020, 13, 2153-2166.	15.6	90
20	The Journey toward Low Temperature, Low Pressure Catalytic Nitrogen Fixation. <i>Advanced Energy Materials</i> , 2020, 10, 2000659.	10.2	127
21	Ammonia Production Technologies. , 2021, , 41-83.		28
23	CO _x -free hydrogen production from ammonia "mimicking the activity of Ru catalysts with unsupported Co-Re alloys. <i>Applied Catalysis B: Environmental</i> , 2021, 280, 119405.	10.8	21
24	Nitrogenase inspired artificial photosynthetic nitrogen fixation. <i>CheM</i> , 2021, 7, 1431-1450.	5.8	43
25	Ammonia to power: Forecasting the levelized cost of electricity from green ammonia in large-scale power plants. <i>Applied Energy</i> , 2021, 282, 116009.	5.1	137
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27	Coupling of a novel boron-based thermochemical cycle with chemical looping combustion to produce ammonia and power. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 28949-28960.	3.8	3
28	Development and Recent Progress on Ammonia Synthesis Catalysts for Haber-Bosch Process. <i>Advanced Energy and Sustainability Research</i> , 2021, 2, 2000043.	2.8	188
29	A technological roadmap to the ammonia energy economy: Current state and missing technologies. <i>Chemical Engineering Journal</i> , 2021, 408, 127310.	6.6	117
30	Target-oriented confinement of Ru-Co nanoparticles inside N-doped carbon spheres via a benzoic acid guided process for high-efficient low-temperature ammonia synthesis. <i>Journal of Energy Chemistry</i> , 2021, 57, 140-146.	7.1	7
31	Electrocatalytic Activity of Lanthanum Chromite-Based Composite Cathode for Ammonia Synthesis from Water and Nitrogen. <i>Advanced Materials Research</i> , 0, 1160, 65-74.	0.3	0
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39	Ammonia: a clean and efficient energy carrier for distributed hybrid system. , 2021, , 141-177.		0
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